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BITUMEN CONTENT AND GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM MIX

Name of Work	:	Widening of Shiva Mandira Temple Road from Major Sandeep Unnikrishnan Road to Yelahanka Industrial Area in ward No.03
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	Sri.Uday shetty
Date of Testing	:	13/01/17
Type of Mix	:	DBM
Sample I/D	:	4

DETERMINATION OF BITUMEN CONTENT

Description	Trail 1	Trail 2
1. Weight of Mixture before extraction, g	665	575
2. Weight of Mixture after extraction, g	637	549
3. Weight of Bitumen	28	26
4. Weight of filter paper before extraction, g	4	4
5. Weight of filter paper after extraction, g	5.3	5.10
6. Weight of fines, g	1.3	1.1
7. Weight of Bitumen & fines	29.3	27.1
8. Bitumen content in %	4.41	4.71
9. Average Bitumen content in %	4.56	

GRADATION FOR DBM AFTER EXTRACTION

(As per MORT&H 500-10,Grading-2)

Sample Location:	At site	Date of Sampling:	13/01/17
		Date of testing:	13/01/17
Type of material & Purpose:	DBM	Oven Dry Wt.(gms):	637.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
37.50	0.0	0.0	0.00	100.00	100.00
26.50	26.0	26.0	4.08	95.92	90-100
19.00	44.0	70.0	10.99	89.01	71-95
13.20	92.0	162.0	25.43	74.57	56-80
4.750	140.0	302.0	47.41	52.59	38-54
2.360	120.0	422.0	66.25	33.75	28-42
0.300	115.0	537.0	84.30	15.70	7-21
0.075	70.0	607.0	95.29	4.71	2-8
Pan	30.0				
Total	637.0				

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Yelahanka Zone
Bangalore

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BITUMEN CONTENT AND GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM MIX

Name of Work	:	Widening of Shiva Mandira Temple Road from Major Sandeep Unnikrishnan Road to Yelahanka Industrial Area in ward No.03
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	Sri.Uday shetty
Date of Testing	:	13/01/17
Type of Mix	:	DBM
Sample I/D	:	1

DETERMINATION OF BITUMEN CONTENT

Description	Trail 1	Trail 2
1. Weight of Mixture before extraction, g	600	600
2. Weight of Mixture after extraction, g	576	574
3. Weight of Bitumen	24	26
4. Weight of filter paper before extraction, g	4	4
5. Weight of filter paper after extraction, g	6	6
6. Weight of fines, g	2	2
7. Weight of Bitumen & fines	26	28
8. Bitumen content in %	4.33	4.67
9. Average Bitumen content in %	4.50	

GRADATION FOR DBM AFTER EXTRACTION
(As per MORT&H 500-10,Grading-2)

Sample Location:	At site	Date of Sampling:	13/01/17
		Date of testing:	13/01/17
Type of material & Purpose:	DBM	Oven Dry Wt.(gms):	576.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
37.50	0.0	0.0	0.00	100.00	100.00
26.50	41.0	41.0	7.12	92.88	90-100
19.00	52.0	93.0	16.15	83.85	71-95
13.20	63.0	156.0	27.08	72.92	56-80
4.750	146.0	302.0	52.43	47.57	38-54
2.360	89.0	391.0	67.88	32.12	28-42
0.300	88.0	479.0	83.16	16.84	7-21
0.075	56.0	535.0	92.88	7.12	2-8
Pan	41.0				
Total	576.0				

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BITUMEN CONTENT AND GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM MIX

Name of Work	:	Widening of Shiva Mandira Temple Road from Major Sandeep Unnikrishnan Road to Yelahanka Industrial Area in ward No.03
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	Sri.Uday shetty
Date of Testing	:	13/01/17
Type of Mix	:	DBM
Sample I/D	:	2

DETERMINATION OF BITUMEN CONTENT

Description	Trail 1	Trail 2
1. Weight of Mixture before extraction, g	650	550
2. Weight of Mixture after extraction, g	622	526
3. Weight of Bitumen	28	24
4. Weight of filter paper before extraction, g	4	4
5. Weight of filter paper after extraction, g	5.3	5.10
6. Weight of fines, g	1.3	1.1
7. Weight of Bitumen & fines	29.3	25.1
8. Bitumen content in %	4.51	4.56
9. Average Bitumen content in %	**4.54**	

GRADATION FOR DBM AFTER EXTRACTION
(As per MORT&H 500-10,Grading-2)

Sample Location:	At site	Date of Sampling:	13/01/17
		Date of testing:	13/01/17
Type of material & Purpose:	DBM	Oven Dry Wt.(gms):	622.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
37.50	0.0	0.0	0.00	100.00	100.00
26.50	26.0	26.0	4.18	95.82	90-100
19.00	42.0	68.0	10.93	89.07	71-95
13.20	95.0	163.0	26.21	73.79	56-80
4.750	141.0	304.0	48.87	51.13	38-54
2.360	130.0	434.0	69.77	30.23	28-42
0.300	121.0	555.0	89.23	10.77	7-21
0.075	45.0	600.0	96.46	3.54	2-8
Pan	22.0				
Total	622.0				

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Project	Widening of Shiva Mandira Temple Road from Major Sandeep Unnikrishnan Road to Yelahanka Industrial Area in ward No.03
Client	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	M/s Tejus Consultants
Contractor	Sri.Uday shetty

FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Type of Material	BC	Proposed Use	BC
Sample Location	At plant	Date of Sampling	17/01/2017
Source of Material		Date of Testing	17/01/2017

Size of aggregate		Flakiness Index		Elongation Index	
Passing through IS sieve, mm	Retained on IS sieve, mm	Total wt. of aggregate retained on sieves (A) gms.	Wt. of aggregate passing from Flakiness gauge (B) gms	Wt. of aggregate retained on Flakiness gauge (C) gms	Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	0	0	0	0
31.5	25.0	0	0	0	0
25.0	20.0	0	0	0	0
20.0	16.0	656	73	583	80
16.0	12.5	1123	130	993	133
12.5	10.0	603	79	524	68
10.0	6.3	495	39	456	57
Total		2877	321	2556	338

Note: Minimum 200 Pcs should be taken on each fraction of test

Flakiness Index(%):	11.16
Elongation Index(%):	13.22
Combined FI+EL (%)	24.38

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Client	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	M/s Tejus Consultants
Contractor	Sri.Uday shetty

FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Type of Material	BC	Proposed Use	BC
Sample Location	At plant	Date of Sampling	17/01/2017
Source of Material		Date of Testing	17/01/2017

Size of aggregate		Flakiness Index		Elongation Index	
Passing through IS sieve, mm	Retained on IS sieve, mm	Total wt. of aggregate retained on sieves (A) gms.	Wt. of aggregate passing from Flakiness gauge (B) gms	Wt. of aggregate retained on Flakiness gauge (C) gms	Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	0	0	0	0
31.5	25.0	0	0	0	0
25.0	20.0	0	0	0	0
20.0	16.0	608	65	543	67
16.0	12.5	1103	130	973	142
12.5	10.0	556	79	477	63
10.0	6.3	500	55	445	62
Total		2767	329	2438	334

Note: Minimum 200 Pcs should be taken on each fraction of test

Flakiness Index(%):	11.89
Elongation Index(%):	13.70
Combined FI+EL (%)	25.59

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Client	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	M/s Tejus Consultants
Contractor	Sri.Uday shetty

FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Type of Material	BC	Proposed Use	BC
Sample Location	At plant	Date of Sampling	17/01/2017
Source of Material		Date of Testing	17/01/2017

Size of aggregate		Flakiness Index		Elongation Index	
Passing through IS sieve, mm	Retained on IS sieve, mm	Total wt. of aggregate retained on sieves (A) gms.	Wt. of aggregate passing from Flakiness gauge (B) gms	Wt. of aggregate retained on Flakiness gauge (C) gms	Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	0	0	0	0
31.5	25.0	0	0	0	0
25.0	20.0	0	0	0	0
20.0	16.0	611	70	541	69
16.0	12.5	1098	123	975	134
12.5	10.0	553	76	477	62
10.0	6.3	496	56	440	63
Total		2758	325	2433	328

Note: Minimum 200 Pcs should be taken on each fraction of test

Flakiness Index(%):	11.78
Elongation Index(%):	13.48
Combined FI+EL (%)	25.27

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Client	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	M/s Tejus Consultants
Contractor	Sri.Uday shetty

AGGREGATE IMPACT VALUE
(IS: 2386 Part - 4)

Proposed Use	BC	Date of Sampling		17/01/2017
Sample Location	At plant	Date of Testing		17/01/2017

Sl. No.	Description		Test No. 1	Test No. 2	Test No. 3	Spec Limit (%)
1	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	327.00	319.00	329.00	
2	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	258.00	255.00	271.00	
3	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	69.00	64.00	58.00	
4	Aggregate Impact Value (%)	(Wc/Wa)*100	21.10	20.06	17.63	
5	Average Aggregate impact value	(%)	19.60			Max - 30 %

Remarks : Satisfactory / Not Satisfactory

Contractor's Representative | Department Engineer (AE/JE) | Consultant's Representative

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Project	Widening of Shiva Mandira Temple Road from Major Sandeep Unnikrishnan Road to Yelahanka Industrial Area in ward No.03
Client	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	M/s Tejus Consultants
Contractor	Sri.Uday shetty

AGGREGATE IMPACT VALUE
(IS: 2386 Part - 4)

Proposed Use	BC	Date of Sampling		17/01/2017
Sample Location	At plant	Date of Testing		17/01/2017

Sl. No.	Description		Test No. 1	Test No. 2	Test No. 3	Spec Limit (%)
1	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	326.00	315.00	329.00	
2	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	266.00	252.00	263.00	
3	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	60.00	63.00	66.00	
4	Aggregate Impact Value (%)	(Wc/Wa)*100	18.40	20.00	20.06	
5	Average Aggregate impact value	(%)		19.49		Max - 30 %

Remarks : Satisfactory / Not Satisfactory

Contractor's Representative

Department Engineer (AE/JE)

Consultant's Representative

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Client	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	M/s Tejus Consultants
Contractor	Sri.Uday shetty

AGGREGATE IMPACT VALUE
(IS: 2386 Part - 4)

Proposed Use	BC	Date of Sampling		17/01/2017
Sample Location	At plant	Date of Testing		17/01/2017

Sl. No.	Description		Test No. 1	Test No. 2	Test No. 3	Spec Limit (%)
1	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	329.00	318.00	323.00	
2	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	259.00	256.00	255.00	
3	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	70.00	62.00	68.00	
4	Aggregate Impact Value (%)	(Wc/Wa)*100	21.28	19.50	21.05	
5	Average Aggregate impact value	(%)	20.61			Max - 30 %

Remarks : Satisfactory / Not Satisfactory

Contractor's Representative

Department Engineer (AE/JE)

Consultant's Representative

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Name of Work	:	Widening of Shiva Mandira Temple Road from Major Sandeep Unnikrishnan Road to Yelahanka Industrial Area in ward No.03
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	**Sri.Uday shetty**
Date of Testing	:	17/01/2017
Type of Mix	:	BC
Sample I/D	:	BC1

GRADATION FOR BC
(As per MORT&H 500-18,Grading-2)

Sample Location: At plant
Date of Sampling: 17/01/2017
Date of testing: 17/01/2017
Type of material & Purpose: BC
Oven Dry Wt.(gms): 1250.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
19.00	0	0	0.00	100.00	100.00
13.20	76	76.0	6.08	93.92	79 - 100
9.50	88	164.0	13.12	86.88	71 - 95
4.75	256	420.0	33.60	66.40	53 - 71
2.360	132	552.0	44.16	55.84	42 - 58
1.180	116	668.0	53.44	46.56	34 - 48
0.600	131	799.0	63.92	36.08	26 - 38
0.300	139	938.0	75.04	24.96	18 - 28
0.150	105	1043.0	83.44	16.56	12 - 20
0.075	143	1186.0	94.88	5.12	4 - 10
Pan	64.0				
Total	1250.0				

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Name of Work	:	Widening of Shiva Mandira Temple Road from Major Sandeep Unnikrishnan Road to Yelahanka Industrial Area in ward No.03
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	**Sri.Uday shetty**
Date of Testing	:	17/01/2017
Type of Mix	:	BC
Sample I/D	:	BC2

GRADATION FOR BC
(As per MORT&H 500-18,Grading-2)

Sample Location: At plant
Date of Sampling: 17/01/2017
Date of testing: 17/01/2017
Type of material & Purpose: BC
Oven Dry Wt.(gms): 1200.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
19.00	0	0	0.00	100.00	100.00
13.20	68	68.0	5.67	94.33	79 - 100
9.50	111	179.0	14.92	85.08	71 - 95
4.75	244	423.0	35.25	64.75	53 - 71
2.360	187	610.0	50.83	49.17	42 - 58
1.180	111	721.0	60.08	39.92	34 - 48
0.600	107	828.0	69.00	31.00	26 - 38
0.300	128	956.0	79.67	20.33	18 - 28
0.150	79	1035.0	86.25	13.75	12 - 20
0.075	101	1136.0	94.67	5.33	4 - 10
Pan	64.0				
Total	1200.0				

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Name of Work	:	Widening of Shiva Mandira Temple Road from Major Sandeep Unnikrishnan Road to Yelahanka Industrial Area in ward No.03
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	**Sri.Uday shetty**
Date of Testing	:	17/01/2017
Type of Mix	:	BC
Sample I/D	:	BC3

GRADATION FOR BC
(As per MORT&H 500-18,Grading-2)

Sample Location: At plant
Date of Sampling: 17/01/2017
Date of testing: 17/01/2017
Type of material & Purpose: BC
Oven Dry Wt.(gms): 1200.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
19.00	0	0	0.00	100.00	100.00
13.20	76	76.0	6.33	93.67	79 - 100
9.50	115	191.0	15.92	84.08	71 - 95
4.75	245	436.0	36.33	63.67	53 - 71
2.360	196	632.0	52.67	47.33	42 - 58
1.180	121	753.0	62.75	37.25	34 - 48
0.600	122	875.0	72.92	27.08	26 - 38
0.300	79	954.0	79.50	20.50	18 - 28
0.150	65	1019.0	84.92	15.08	12 - 20
0.075	101	1120.0	93.33	6.67	4 - 10
Pan	80.0				
Total	1200.0				

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Name of Work	:	**Widening of Shiva Mandira Temple Road from Major Sandeep Unnikrishnan Road to Yelahanka Industrial Area in ward No.03**
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	Sri.Uday shetty
Date of Testing	:	18/01/2017
Type of Mix	:	Tack coat
Sample I/D	:	1

DETERMINATION OF RATE OF SPREAD TACK COAT

Determination	Unit	Test No	
		1	2
Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
Area of Plate (a)	Sq.mtr	0.09	0.09
Initial Wt of empty Plate (b)	Kg	0.764	0.761
Final weight of plate after application of tack Coat (c)	Kg	0.788	0.783
Weight of tack Coat (d=c-b)	Kg	0.02	0.022
Rate of spread of tack coat	Kg/sq.m	0.27	0.24
Average	Kg/sq.m	0.256	
Specified Limit	Kg/sq.m	**0.250 Kg/sq.m**	

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Name of Work	:	**Widening of Shiva Mandira Temple Road from Major Sandeep Unnikrishnan Road to Yelahanka Industrial Area in ward No.03**
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	Sri.Uday shetty
Date of Testing	:	18/01/2017
Type of Mix	:	Tack coat
Sample I/D	:	2

DETERMINATION OF RATE OF SPREAD TACK COAT

Determination	Unit	Test No	
		1	2
Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
Area of Plate (a)	Sq.mtr	0.09	0.09
Initial Wt of empty Plate (b)	Kg	0.765	0.763
Final weight of plate after application of tack Coat (c)	Kg	0.789	0.785
Weight of tack Coat (d=c-b)	Kg	0.024	0.022
Rate of spread of tack coat	Kg/sq.m	0.267	0.244
Average	Kg/sq.m	0.256	
Specified Limit	Kg/sq.m	**0.250 Kg/sq.m**	

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Name of Work	:	**Widening of Shiva Mandira Temple Road from Major Sandeep Unnikrishnan Road to Yelahanka Industrial Area in ward No.03**
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	Sri.Uday shetty
Date of Testing	:	18/01/2017
Type of Mix	:	Tack coat
Sample I/D	:	3

DETERMINATION OF RATE OF SPREAD TACK COAT

Determination	Unit	Test No	
		1	2
Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
Area of Plate (a)	Sq.mtr	0.09	0.09
Initial Wt of empty Plate (b)	Kg	0.761	0.768
Final weight of plate after application of tack Coat (c)	Kg	0.784	0.790
Weight of tack Coat (d=c-b)	Kg	0.023	0.022
Rate of spread of tack coat	Kg/sq.m	0.256	0.244
Average	Kg/sq.m	0.250	
Specified Limit	Kg/sq.m	**0.250 Kg/sq.m**	

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BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE MIX

TEJUS CONSULTANTS

Name of Work	:	Widening of Shiva Mandira Temple Road from Major Sandeep Unnikrishnan Road to Yelahanka Industrial Area in ward No.03
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	**Sri.Uday shetty**
Date of Testing	:	18/01/2017
Type of Mix	:	BC
Sample I/D	:	BC1

DETERMINATION OF BITUMEN CONTENT

Description	Trail 1	Trail 2
1. Weight of Mixture before extraction, g	630.00	604.00
2. Weight of Mixture after extraction, g	596.00	572.00
3. Weight of Bitumen	34.00	32.00
4. Weight of filter paper before extraction, g	4.00	4.00
5. Weight of filter paper after extraction, g	6.00	6.00
6. Weight of fines, g	2.00	2.00
7. Weight of Bitumen & fines	36.00	34.00
8. Bitumen content in %	5.71	5.63
9. Average Bitumen content in %	**5.67**	

GRADATION FOR BC AFTER EXTRACTION
(As per MORT&H 500-18,Grading-2)

Sample Location: At site

Date of Sampling: 18/01/2017

Date of testing: 18/01/2017

Type of material & Purpose: **BC**

Oven Dry Wt.(gms): 596.0

IS Sieve size in mm	Weight retained(gm)	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
19.00	0	0	0.00	100.00	100.00
13.20	39	39.0	6.54	93.46	79 - 100
9.50	105	144.0	24.16	75.84	71 - 95
4.75	98	242.0	40.60	59.40	53 - 71
2.360	51	293.0	49.16	50.84	42 - 58
1.180	38	331.0	55.54	44.46	34 - 48
0.600	48	379.0	63.59	36.41	26 - 38
0.300	65	444.0	74.50	25.50	18 - 28
0.150	48	492.0	82.55	17.45	12 - 20
0.075	66	558.0	93.62	6.38	4 - 10
Pan	38.0				
Total	596.0				

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